

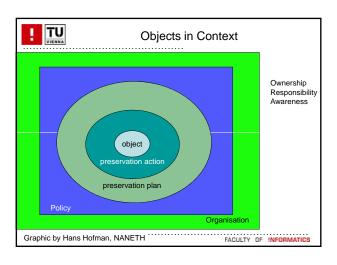


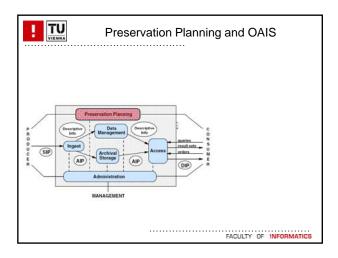
Definition of a Preservation Plan

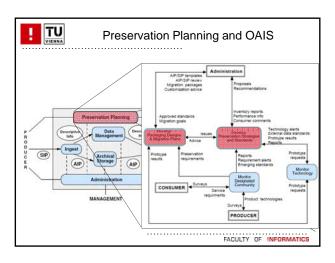
A preservation plan defines a series of preservation actions to be taken by a responsible institution to address an identified risk for a given set of digital objects or records (called collection).

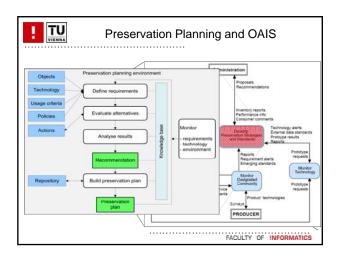
The Preservation Plan takes into account the preservation policies, legal obligations, organisational and technical constraints, user requirements and preservation goals.

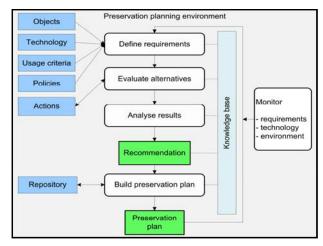
It also describes the preservation context, the evaluated alternative preservation strategies and the resulting decision for one strategy, including the rationale of the decision

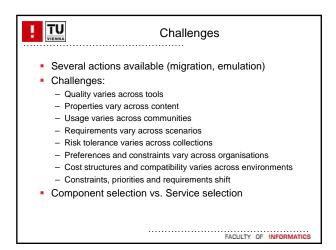


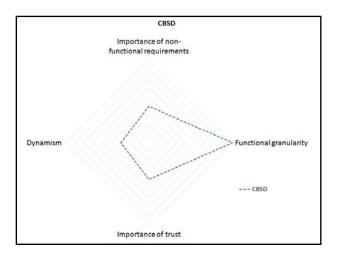


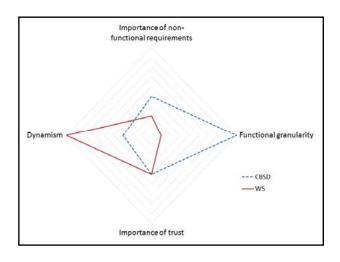


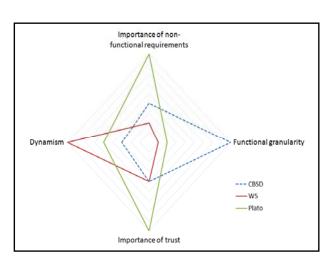


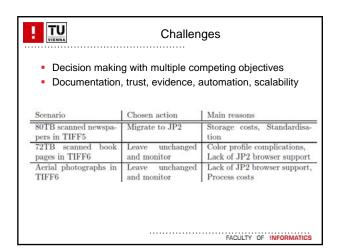


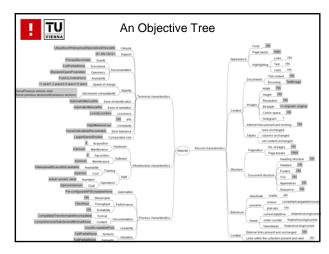


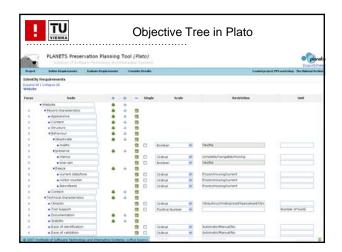


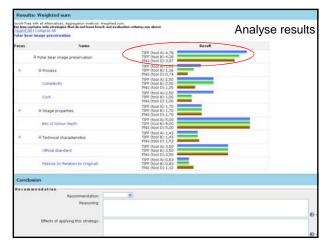


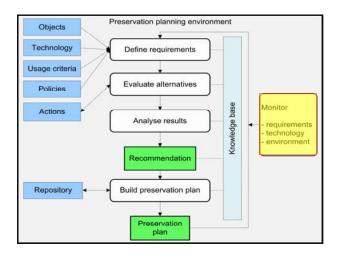


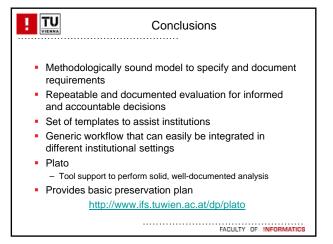


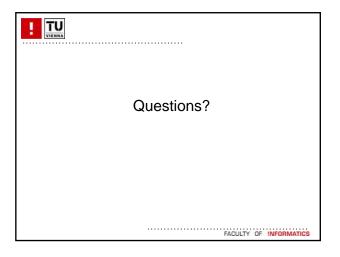


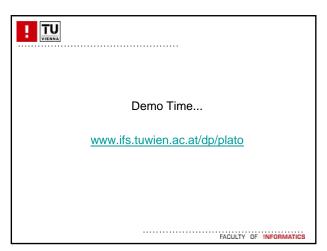












Exercise time!
 www.ifs.tuwien.ac.at/dp/plato

dpvo1-4
 (Create and) load "DEMO PLAN scanned images"
 Analyse provided documentation
 Discuss evaluation+transformation
 Analyse and draw conclusions

Why all that? .... Trust and Risks

- Trust in Digital Repositories
- TRAC
- Nestor Criteria
- Risk and Digital Preservation
- Principles of DRAMBORA
- Overview
- Workflow
- Results
- Benefits
- Exercise: Risk assessment of preservation planning

Trustworthy repositories

Producers and consumers need trust in a repository

What is trust?

Concepts

being able to predict something

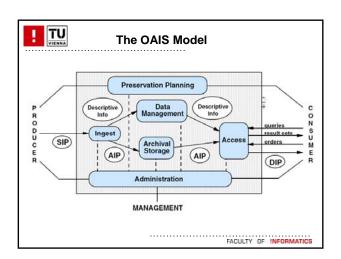
Confidence of producers and consumers

Reliability, authenticity

A trusted party is presumed to seek to fulfill expectations (legal obligations, policies, ethics, contracts...)

Standards

OAIS compliance...?





### Trust in a Repository

- Critical services require trust
- RLG/OCLC "Trusted Digital Repositories Attributes and Responsibilities" (2002)
  - depositors trust information holders
  - users trust digital assets provided by repositories
  - information holders trust third party service providers
- How is trust established, maintained, and secured?
- How to verify trust?

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### Trustworthy Repositories Principles

CRL-RLG-OCLC-Nestor-DPE-DCC criteria and checklists

- The repository commits to continuing maintenance of digital objects for identified community/communities.
- Demonstrates organizational fitness (including financial, staffing structure, and processes) to fulfil its commitment.
- Acquires and maintains requisite contractual and legal rights and fulfils responsibilities.
- IV. Has an effective and efficient policy framework.
- Acquires and ingests digital objects based upon stated criteria that correspond to its commitments and capabilities.

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### Trustworthy Repositories Principles

- VI. Maintains/ensures the integrity, authenticity and usability of digital objects it holds over time.
- VII. Creates and maintains requisite metadata about actions taken on digital objects during preservation as well as about the relevant production, access support, and usage process contexts before preservation.
- VIII. Fulfils requisite dissemination requirements.
- IX. Has a strategic program for preservation planning and action.
- Has technical infrastructure adequate to continuing maintenance and security of its digital objects.

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#### Audit and Certification Initiatives

- **RLG- National Archives and Records Administration** Digital Repository Certification Task Force
  - Trustworthy Repositories Audit & Certification: Criteria and Checklist (TRAC)
- **NESTOR** 
  - Catalogue of Criteria of Trusted Digital Repositories
- DRAMBORA: Self-assessment

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## **TRAC**

### Criteria checklist

### Three groups

- A. Organisational Infrastructure
- B. Digital Object Management
- C. Technologies, Technical Infrastructure & Security

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# TRAC and Preservation Planning I

- A 3.2 Repository has procedures and policies in place, and mechanisms for their review, update, and development as the repository grows and as technology and community practice evolve.
- Planning procedure
- Watch Services, triggers Update of preservation plans

A3.6 Repository has a documented history of the changes to its operations, procedures, software, and hardware that, where appropriate, is linked to relevant preservation strategies and describes potential effects on preserving digital content.

– History of preservation plans (created, reviewed and updated)

- Plato: Automated documentation of planning activities

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### TRAC and Preservation Planning II

A3.7 Repository commits to transparency and accountability in all actions supporting the operation and management of the repository, especially those that affect the preservation of digital content over time.

- Solid workflow in consist manner enables informed and well-documented decisions
- Explicit definition of objectives and measurement units
- Change history in plans

B1.1 Repository identifies properties it will preserve for digital objects.

- Objective Tree
- Evaluation results

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### TRAC and Preservation Planning III

B3.1 Repository has documented preservation strategies.

- Preservation Plan
- B3.3 Repository has mechanisms to change its preservation plans as a result of its monitoring activities.
- Watch Services, triggers
- Verification against changes in the environment
- Update of preservation plans

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### Nestor Criteria & Preservation Planning

- 8. The digital repository has a strategic plan for its technical preservation measures.
- Preservation Plan
- Triggers for re-evaluation
- Watch Services
- 9.2 The digital repository identifies which characteristics of the digital objects are significant for information preservation.
- Objective Tree
- Cf. TRAC B1.1!

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#### Nestor and TRAC versus PP

- Certification and Audit of repositories
- NESTOR and TRAC
- TRAC ISO certification in progress
- Planets Preservation Planning approach
  - Documented preservation strategies
  - Identification of significant properties
  - Continuous monitoring and mechanisms to react to changes in the environment

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# ...and in practice?

- Criteria checklists important step
  - Future: audit certificates
- Criteria not always helpful
  - How to measure fulfilment
  - How to prove trust
  - How to improve
- Audit and Certification as ultimate goal
- Self-audit as important step

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# DRAMBORA

- Digital Repository Audit Method Based on Risk Assessment
- Self-Audit and Self-Assessment
- Evidence based
  - Consistency
  - To ensure conclusions can be validated and replicated
  - Documentary, testimonial, and observational evidence
- Pilot audits
- Risk awareness is low within the community

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